## WHAT IS CLAIMED IS:

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1. A method of quantifying the integrity of connections within individual circuit cells of an integrated circuit device, the method comprising:

placing the integrated circuit device in a vacuum chamber;

bombarding a selected site on the integrated circuit with an electron or ion beam;

detecting secondary electron or ion reflection from the selected site to acquire an image of the selected site; and

correlating the acquired image with a reference image to generate a potential value associated with the selected site.

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